SS12E™

USER MANUAL

20472/20120530 • SS12E™
ALL RIGHTS RESERVED MARMITEK ©

MARMITEK®

TABLE OF CONTENTS

TABLE OF CONTENTS 2
SAFETY WARNINGS 3
HOW DOES MARMITEK X10 WORK? 4
ADRESSES 4
SIGNAL RANGE 5
INSTRUCTIONS FOR USE SS12™ WIRELESS SWITCH 7
INTRODUCTION 7
PROPERTIES 7
CHANGE OF THE HOUSECODE 7
CHANGE OF THE UNITCODE 8
CHANGE OF THE BATTERY 8
APPLICATIONS 8
FREQENTLY ASKED QUESTIONS 9
TECHNICAL DATA 10
DECLARATION OF CONFORMITY 11
COPYRIGHTS 12

© MARMITEK

SAFETY WARNINGS

- To prevent short circuits, this product should only be used inside and only in dry spaces. Do not expose the components to rain or moisture. Do not use the product close to a bath, swimming pool etc.
- Do not expose the components of your systems to extremely high temperatures or bright light sources.
- In case of improper usage or if you have altered and repaired the product yourself, all guarantees expire. Marmitek does not accept responsibility in the case of improper usage of the product or when the product is used for purposes other than specified. Marmitek does not accept responsibility for additional damage other than covered by the legal product responsibility.
- This product is not a toy. Keep out of reach of children.
- Do not open the product (battery panel excepted): the device may contain live parts. The product should only be repaired or serviced by a qualified expert.
- Keep batteries out of the reach of children. Dispose of batteries as chemical waste. Never use old and new batteries or different types of batteries together. Remove the batteries when you are not using the system for a longer period of time. Check the polarity (+/-) of the batteries when inserting them in the product. Wrong positioning can cause an explosion.
- Automatic switching devices provide comfort, but can also be dangerous. They can surprise people or can ignite clothing hanging over an electric heat source. Please be careful and take appropriate measures to avoid accidents.

HOW DOES MARMITEK X10 WORK?

Marmitek X10 components use the existing mains wiring to communicate (using Marmitek X10 signals). You can build a complete system using the three different kind of components of the Marmitek X10 System:
1. Modules: These components will receive Marmitek X10 signals and will switch or dim the attached lamp or appliance. Examples of these modules are lamp modules and appliance modules. These are available as build-in, micro, DIN rail and plug-in modules.
2. Controllers: These components will transmit Marmitek X10 signals and thus will control the Modules.
3. Transmitters:Wireless components like remotes. The signals of these components will be received by a controller with transceiver functionality (IRRF 7243, TM13, CM15Pro…..). The Transceiver will translate the signals into Marmitek X10 signals on the power line.

ADRESSES

Up to a maximum of 256 different addresses can be preset. These are subdivided into a so-called HouseCode (A to P incl.) and a UnitCode (1 to 16 incl.). The HouseCode can also be set on the controllers, so that the controllers and modules become part of the same system. The address can be set either using code dials or by pressing buttons, depending on the type of module.
The Marmitek X10 System uses standard commands, which control all units with the same HouseCode at the same time (e.g. all lights on, all units off, etc.).

© MARMITEK

SIGNAL RANGE

Range of Marmitek X10 signals over the Power Line and how to increase the range.

The Marmitek X10 System is based on power line communication. The range of the Marmitek X10 signals very much depends on the local circumstances. On average the range is a cable length of 80 meters.

If you have difficulties with the range of your Marmitek X10 signals, please pay attention to the following facts:

1. When more than one phase is used for your electrical system, it is necessary to couple these phases for the Marmitek X10 signals. For coupling you can use FD10 Phase Couplers/Filters. You only need to install a Phase Coupler/Filter when your wall outlets and light switches are divided over more than one phase (more than one group is no problem). For bigger buildings or longer distances we advice you to use an active repeater instead of passive FD10's.
2. It is possible that Marmitek X10 signals are attenuated by devices and lights which are connected to the power line. In a normal home situation this effect is negligible (the Marmitek X10 system is using active gain control to eliminate the effects). However, it is possible that a particular device in your house is attenuating the signals so much that the range of Marmitek X10 signals is decreased significantly. When you have range problems, it is wise to try to locate the device which is attenuating the signals simply by unplugging devices from the power line, and testing the differences in range for your Marmitek system. When e.g. your conclusion is that e.g. your computer monitor is attenuating the signal, you can use a FM10

Plug-in Filter between the power line and the monitor to eliminate the effects.

Known devices which can cause attenuation are:

PC Monitors
PCs with heavy internal power supplies
Old Televisions
Copiers
Fluorescent Lights
Gas Discharge Lamps (Energy Saving Lamps)

3. Some (old) devices are able to disturb the signal by transmitting noise on the power line. Because the Marmitek X10 signals are transmitted on 120 kHz, only noise on or near this frequency will have influence on the range. When you use a FM10 Filter to connect this device to the power line, the noise will be filtered.

4. The Marmitek X10 protocol has several mechanism to avoid modules to be switched on or off by other sources than your Marmitek X10 Controllers. However, it is possible that the Marmitek X10 signals are disturbed by e.g. baby phones which are in TALK mode (continuous transmission). When these kind of signals are present on the power line it is possible that the Marmitek X10 signals will not come through.

5. The mains do not stop at the front door of your home. Everything that is attached to mains nearby your home can have influence on Marmitek X10 signals (e.g. heavy machinery). If you think that your system is influenced by devices out of your house, it is advisable to install FD10 Phase Coupler/Filter on each phase entering the house. These filters will block signals coming into or going out of your house, but will also match the impedance for the mains. Hereby make your house Marmitek X10 compatible for these units. The FD10's will not only filter but will also couple the phases (please see 1).

© MARMITEK

INSTRUCTIONS FOR USE SS12™ WIRELESS SWITCH

INTRODUCTION

Congratulations buying the Marmitek X10 SS12 wireless switch. This is a super thin, elegant wireless switch. It is the ideal solution for situations where an extra switch is needed without installing wires. It is to install on walls, glass, doors tables etc. and transmits high frequent signals through walls and ceilings. The SS12 wireless switch transmits radio graphical signals to an X10 Transceiver TM13, IRRF7243 or Marmitek X10 Alarm station. Then the Transceiver or Station transmits these signals via the in your house already installed electric wiring. Through this you can switch on and off your lighting (or apparatus) connected to X10 receivers (lighting can be dimmed also). The SS12 is completely wireless and battery powered.

PROPERTIES

The switches are delivered standard at HouseCode A.

CHANGE OF THE HOUSECODE

1. Press the left button ON and keep it pressed. The red LED flashes shortly. After 15 seconds the present set-up is shown: 1 flash is HouseCode A, 2 flashes is HouseCode B etc.
2. Release the button ON.
3. Now press shortly for the desired HouseCode on the same ON button (1x = A, 2x = B etc). The LED flashes every time you press the button.
4. At the last time keep the button pressed. After 3 seconds the LED shows the set-up HouseCode. Now release the button.

CHANGE OF THE UNITCODE

When setting up the UnitCode the left button is set up in the desired UnitCode. The right button is always automatically one UnitCode higher.

1. Press the left OFF button and keep it pressed. The red LED flashes shortly. After 15 seconds the present set up is shown: 1 flash is UnitCode 1, 2 flashes is UnitCode 2 etc.
2. Release the OFF button.
3. Now press shortly for the desired UnitCode on the same OFF button (1x = 1; 2x = 2 etc.) The Led flashes every time you press the button.
4. At the last time keep the button pressed. After 3 seconds the LED shows the set-up UnitCode. Now release the button.

CHANGE OF THE BATTERY

Remove the right rocker switch at the front of the SS12 and replace the battery.
Use an identical 12V Alkaline battery (type A23). Mind the polarity when replacing.

APPLICATIONS

With the Marmitek X10 SS12 wireless switch you can activate pre-programmed macros in the CM15Pro computer interface.
You can also use the SS12 as a central operation panel for your Marmitek installation.

© MARMITEK

FREQENTLY ASKED QUESTIONS

What is the reason for modules to switch on/off spontaneously?

It is possible that a Marmitek X10 System is installed at one of your neighbours using the same HouseCode. To solve this problem try to change the HouseCode of your system, or have FD10 Phase Coupler/Filter installed at your incoming mains.

My modules will not respond to my controller.

Make sure that the HouseCode on all Modules and Controllers are set to the same HouseCode (A .. P).

My modules will not react to my remote / sensor.

When you use a remote or sensor, you should have at least one Transceiver or Marmitek Security Console installed in your house. These components will translate the radio signals to the Marmitek X10 signal on the power line. Only one Transceiver should be installed for all remotes and sensors set to the same House Code.

The other modules do not respond to signals of the SS12. What can be the problem?

- Check if the SS12 has been set-up correctly. The easiest way to do this is to give again the correct HouseCode to the top left button.
- Has the battery been placed correctly?
- The SS12 uses a Transceiver module (TM13, IRRF7243 or one of the Marmitek X10 alarm stations). Check if it works properly, for instance to use another remote control.
- Maybe the range of the SS12 is not sufficient for your purpose; if so, when using a TM13, place an extra TM13 in the neighbourhood of your SS12.

Do you still have questions? Please check out www.marmitek.com for more information.

TECHNICAL DATA

Supply:	1 x A23 12V Alkaline Battery (supplied)
RF range:	Up to 30m free field, up to 20m through walls and ceilings
RF frequency:	433,92 MHz
RF power:	10mW
X10 Key codes:	On, off, dim, bright
Ambient temperature:	- 10° C to + 50° C (operation) - 20° C to + 70° C (storage)
Dimensions:	80 x 80 x 20 mm

Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

© MARMITEK

DECLARATION OF CONFORMITY

Hereby, Marmitek BV, declares that this SS12 is in compliance with the essential requirements and other relevant provisions of the following Directives:

Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity

Directive 2004/108/ec of the european parliament and of the council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment

MARMITEK BV
P.O. BOX 4257
5604 EG EINDHOVEN
NETHERLANDS

CE 0681

COPYRIGHTS

Marmitek is a trademark of Pattitude B.V.
SS12™ is a trademark of Marmitek B.V. All rights reserved.
Every effort has been made to ensure that the information in this manual is accurate. Marmitek is not responsible for printing or clerical errors.
Copyright and all other proprietary rights in the content (including but not limited to model numbers, software, audio, video, text and photographs) rests with Marmitek B.V. Any use of the Content, but without limitation, distribution, reproduction, modification, display or transmission without the prior written consent of Marmitek is strictly prohibited. All copyright and other proprietary notices shall be retained on all reproductions.
Other company and product names mentioned herein may be trademarks of their respective companies. Mention of third-party products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Marmitek assumes no responsibility with regard to the performance or use of these products.

NICOSHOP

NICOSHOP

© MARMITEK

NICOSHOP

NICOSHOP

MARMITEK®

www.marmitek.com